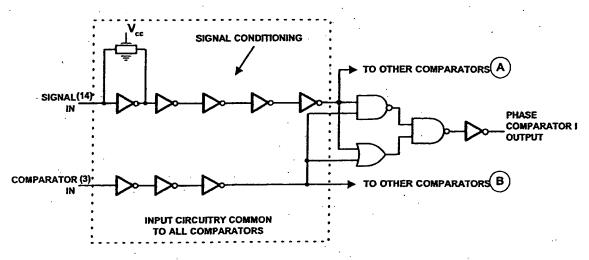
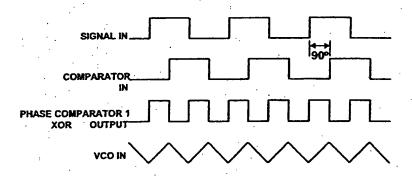


(A) BASIC XOR PHASE COMPARATOR



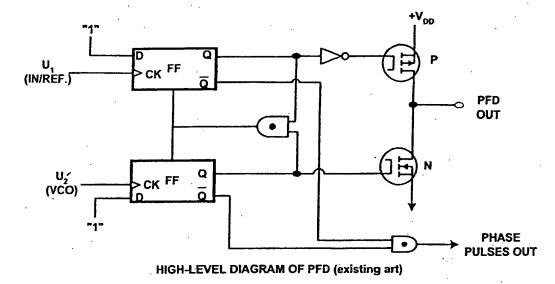
(B) DETAILED ON-CHIP IC CIRCUITRY IN 74HC4046



(C) TYPICAL XOR DETECTOR WAVEFORMS

Fig. 4 (Prior Art)





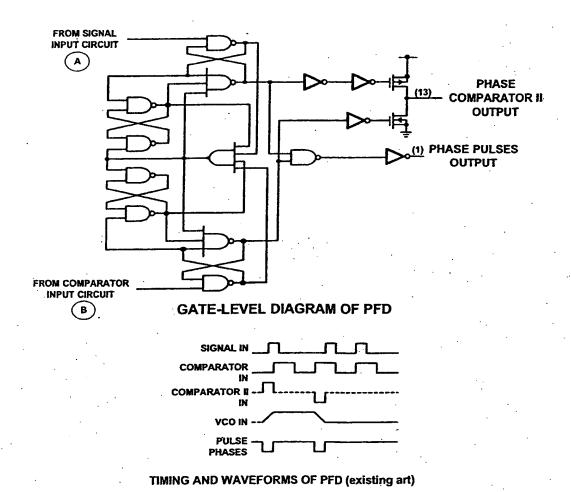


Fig. 4 cont. (Prior Art)



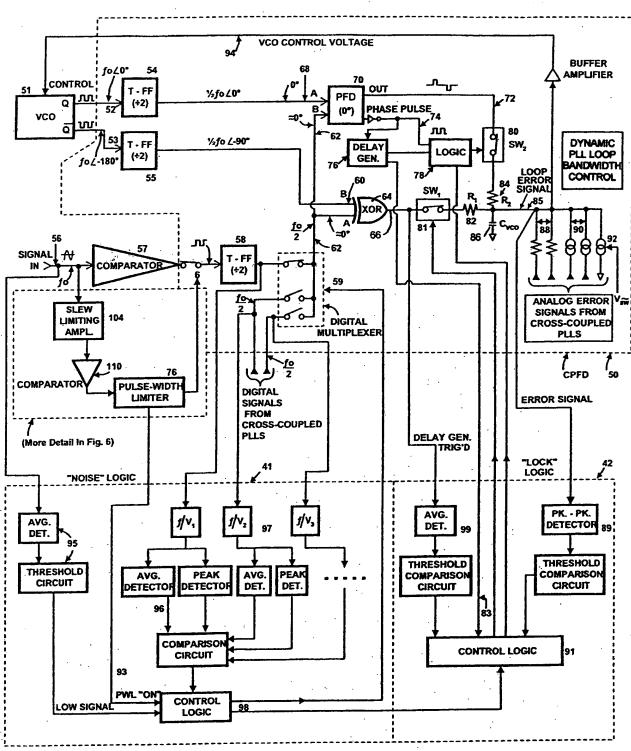


Fig. 5

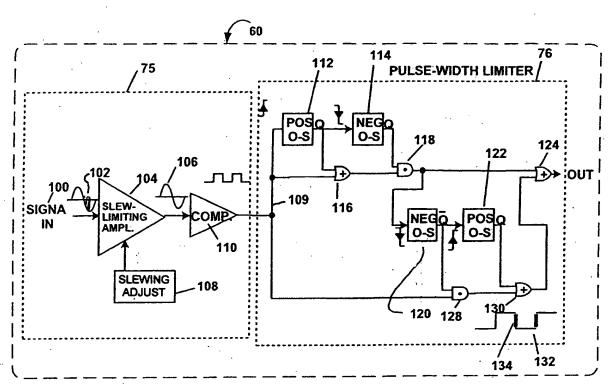


Fig. 6